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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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09/877,371

06/08/2001

Benjamin Edward Russ

68581

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22242

7590

07/12/2004

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EXAMINER

HARPER, HOLLY R

ART UNIT

PAPER NUMBER

2879

DATE MAILED: 07/12/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

lph

Office Action Summary	Application No. 09/877,371	Applicant(s) RUSS ET AL.	
	Examiner Holly R. Harper	Art Unit 2879	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 06 May 2004.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,3-15,17,18 and 20-22 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1, 3-8, 11, 12, 14, 15, 17, and 21 is/are allowed.
- 6) ☒ Claim(s) 9,10,13,18,20 and 22 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 06 May 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Amendment

The Amendment, filed on 5/6/04, has been entered and acknowledged by the Examiner.

Claims 21-22 have been entered.

Claims 1, 3-4, 9, 12, 14-15, 17, and 20 have been amended.

Claims 2, 16, and 19 have been canceled.

The drawing has been added

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 9, 10, 13, 18, 20, and 22 are rejected under 35 U.S.C. 102(b) as being anticipated by Barth et al. (USPN 4,591,758).

In regard to claim 9, the Barth reference discloses a barrier device for an FED with a linear in-laid means for isolating (Figure 2, Element 130) linear electron fields emitted from adjacent emitter lines (Figure 2, Element 110) of a cathode substrate to a display screen (Figure 2, Element 70).

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In regard to claims 10 and 13, the Barth reference discloses gate wires (Figure 2, Element 150) of a gate frame, (Figure 2, Element 130), that contact the emitter lines (Figure 2, Element 110). The gate wires are suspended in a second dielectric layer that performs as a frame.

The recitation “dampen vibrations in the gate wires from the driving frequency” has not been given patentable weight because is considered an intended used recitation. It has been held that a recitation with respect to the manner in which a claimed apparatus is intended to be employed does not differentiate the claimed apparatus from a prior art apparatus satisfying the claimed structural limitations.

In regard to claim 18, the Barth reference discloses in-laid isolation means (Figure 2, Element 130) where there is no separating structure positioned between adjacent emitter portions on the surface (Figure 2, Element 110). The emitter line is a continuous piece of material with nothing on their surface. Therefore, there is no separating structure interrupting the continuous piece of material forming an emitter line.

In regard to claim 20, the Barth reference discloses a gas plasma display panel. It is well known in the art that gas display panels have emitters (Figure 2, Element 110) that cause electron emission to the display screen (Figure 2, Element 70).

In regard to claim 22, the Barth reference discloses a gas plasma display device. The gas serves as an illuminating means.

Allowable Subject Matter

3. Claims 1, 3-8, 11, 12, 14, 15, 17, and 21 are allowed.

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Regarding claim 1, the references of the Prior Art of record fails to teach or suggest the combination of the limitations as set forth in claim 1, and specifically comprising the limitation of a cathode plate for a field emission device that has one or more electron emitter lines formed within each of the one or more in-laid isolation barriers which are formed within the thickness of the substrate.

Regarding claims 3-8, 11, 12, 14, 15, 17, and 21, claims 3-8, 11, 12, 14, 15, 17, and 21 are allowable for the reasons given in claim 1 because of their dependency status from claim 1.

Response to Arguments

4. Applicant's arguments, filed 5/6/04, with respect to claim 1 have been fully considered and are persuasive. The rejection of claim 1 and all of its dependent claims has been withdrawn.

Conclusion

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

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however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Contact Information

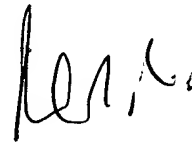
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Holly Harper whose telephone number is (571) 272-2453. The examiner can normally be reached on Monday-Friday from 8:30 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimesh Patel, can be reached on (571) 272-2457. The fax phone number for the organization where this application or proceeding is assigned is (703) 308-7382.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.



Holly Harper
Patent Examiner
Art Unit 2879



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